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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/774,558	58 01/31/2001		Mitchell Anthony DeLong	7997	3530
27752	7590	11/05/2004		EXAMINER	
		GAMBLE COME	CHANNAVAJJALA, LAKSHMI SARADA		
INTELLECTUAL PROPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161				ART UNIT	PAPER NUMBER
6110 CENTER HILL AVENUE				1615	
CINCINNATI, OH 45224				DATE MAILED: 11/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/774,558	DELONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lakshmi S Channavajjala	1615				
The MAILING DATE of this communication app Period for Reply	nears on the cover sheet with th	e correspondence address	_			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - It the period for reply specified above is less than thirty (30) days, a replinif In NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum ot thirty (30) will apply and will expire SIX (6) MONTHS fo , cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing dale of this communication. NED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>02 N</u> 2a) This action is FINAL . 2b) This	ovember 2004. action is non-final.					
3) Since this application is in condition for allowar		prosecution as to the merits is	٠			
closed in accordance with the practice under E	•		٠			
Disposition of Claims						
4)⊠ Claim(s) <u>1,2,4-12 and 14-33</u> is/are pending in	the application.		•			
4a) Of the above claim(s) 1,19-28 and 30 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>2,4-12,14-18,29 and 31-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers			,			
9) The specification is objected to by the Examine	r.		3			
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by th	e Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	*			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offi	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119			Ç.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International Bureau	rity documents have been rece					
* See the attached detailed Office action for a list	· · · ·	ived.				
			8			
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	Date Il Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informa 6) Other:	ii Faterit Application (FTO-192)	·			
Value in the state of the state	, 					

DETAILED ACTION

Receipt of amendment and response dated 6-7-04 is acknowledged.

Claims 3 and 13 have been canceled. Claims 31-33 have been added. Claims 1, 19-28 and 30 have been withdrawn as being non-elected.

Response to Arguments

In response to the amendment to independent claims 2 and 29, examiner has withdrawn the following rejections:

- 1. Rejection of claims 2, 4-12, 14-18 and 29 under 35 USC 112, first paragraph as containing new matter.
- 2. Claims 2, 4-10, 12, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,171,331 to Biddlecom et al (hereafter Biddlecom).
- 3. Claims 2, 4-10, 12, 14-18 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kende et al (Tetrahedron Letters, 11-19-1199) in view of USPN 6,262, 105 to Johnstone.
- 4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 4,17 1,331 to Biddlecom et al (Biddlecom).

Applicant's arguments with respect to claims 2, 4-12, 14-18 and 29 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

Claims 2, 4-12, 14-18, 29 and 31-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Instant independent claims recite the limitation "biohydrolyzable amide, ester or imides of 2-decarboxy-2-phosphinico derivatives, which is indefinite because it is unclear as to the meets and bounds of the terms hydrolyzable. Are these compounds encompassed by enzyme hydrolysis? What kinds of esters or amides or imides are being contemplated? Is the hydrolyzable ester (or amide or imides) a precursor that can be hydrolyzed into one of the compounds? A clarification is requested.

Claim Rejections - 35 USC § 102

Claim 33 is rejected under 35 U.S.C. 102(b) as being anticipated by US 4171331 to Biddlecom et al (hereafter Biddlecom).

Instant claim recites 2-decarboxy-2-phosphinico derivatives of prostaglandins having a structure "selected from the group consisting of" formula I, II and III.

Biddlccom discloses 1 and 2-substituted analogues of E, A and F prostaglandins, which includes the instant phosphonic derivatives represented by formula III. In particular, the phosphonic derivatives of prostaglandins are described in col. 7, lines 31-67 and the specific compounds of example V (col. 29, lines 55-67 and col. 30, lines 1-10), compounds of examples VIII and 1X (col. 32), compound of example XIII (col. 34) and compound of example XIV (col. 35), all of which read on the instant 2-decarboxy-2-phosphinico derivatives of prostaglandins having hydroxyl groups at C11 position on the pentacyclic ring. Further, Biddlecom discloses preparing solutions of prostaglandin derivatives in water (col. 68, lines 50-53) for testing their biological activity. Claim 2 recites the limitation "for treating hair loss", which is an intended use and carries no patentable distinction. Accordingly, the composition of Biddlecom containing phosphonic derivatives of prostaglandin reads on the instant composition claimed. Thus,

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Biddlecom anticipates the 2-decaroxy-2-phosphinico derivatives of prostaglandins (formula III) of the instant claims.

Examiner objected to claim 13 in the previous office action and stated that if written independently with all the limitations of the base claim, claim 13 would be allowable. Further, previous office action also clearly provided reasons for allowing the above claims, in which it is stated that phosphonic acid derivative of prostaglandin possessing an NH group at the C11 position is novel and is not disclosed by the prior art of record. Furthermore, a phosphonic acid derivative of prostaglandin possessing an NH group at C11 position pertains to formula II and not formula III. In response to the objection, applicants canceled claim 13 and presented as a new claim 33 in an independent format. However, as explained in the preceeding paragraph, instant claim requires one of the three formulae (I, II or III) and is not limited to compounds of formula II. Accordingly, Biddlecom anticipates the compound encompassed by formula III.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lakshmi S Channavajjala whose telephone number is 571-272-0591. The examiner can normally be reached on 7.30 AM -4.00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lakshmi S Channavajjala

Examiner

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November 2, 2004